

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-282-2  
Relating to Certification of New Modifier Certified Motor Vehicles

K&E INTERNATIONAL AUTO CONSULTANTS

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That K&E International Auto Consultants emission control systems are certified in California as described below for gasoline-powered passenger cars which are designated as 1987 model-year vehicles by the regulations:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HK12.3V6FC54	140 (2.3)	Dual Warm-Up Three Way Catalysts Three-Way Catalyst Heated Oxygen Sensor (Mechanical Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.41	7.0	0.7

The following are the certification emission values for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.25	2.4	0.2

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of service facilities in each of the seven major urban areas in California;

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of a one thousand dollar (\$1,000.00) time deposit account payable to the Air Pollution Control Fund for the duration of the recall period for each vehicle produced which will provide for the execution of an ordered recall pursuant to Title 13, California Administrative Code Sections 2111, 2112 and 2113.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the prepaid warranty insurance policy to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq. and Health and Safety Code Section 43204).

BE IT FURTHER RESOLVED: That the Non-USA Certificate Document of Compliance forms are to be issued for each certified vehicle with the unused forms to be returned to the Executive Officer at the termination of the certification authority granted herein or any subsequent executive order.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair and the Department of Motor Vehicles will be notified by copy of this order and attachment.

Executed at El Monte, California this 18<sup>th</sup> day of July, 1987.

  
K. D. Drachand, Chief  
Mobile Source Division

Manufacturer K & E INTERNATIONALExecutive Order No. A-282-2Engine Family HK12.3V6FC54Evaporative Family HKEV6Engine CID (Liters) 140 (2.3)

## ABBREVIATIONS

## Ignition System

CA-Centrifugal Advance  
EEC-Electronic Engine Control  
EI-Electronic Ignition  
ESAC-Electronic Spark Advance Control  
VA-Vacuum Advance  
VR-Vacuum Retard

## Fuel System

CFI, CL, DID, DIP, EFI, MFI  
nV-nVenturi Carburetor  
VV-Variable Venturi

## Exhaust Emissions Control System

AIP-Air Injection-Pump  
AIV-Air Injection-Valve  
CL-Closed Loop  
EGR-Exhaust Gas Recirculation  
EM-Engine Modification  
OC-Oxidation Catalyst System  
TR-Thermal Reactor  
TWC-Three-Way Catalyst System

## Special Features

CCV-Combustion Chamber Valve  
CFI-Central Fuel Injection  
DID-Diesel Injection Direct  
DIP-Diesel Injection Prechamber  
EFI-Electronic Fuel Injection  
MFI-Mechanical Fuel Injection  
TC-Turbocharge

VEHICLE MODELS: 190E2.3  
230E  
230TE

DRIVE SYSTEM: Front Engine/ Rear -Wheel Drive

## 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☒ Passenger Cars    ☐ Light-Duty Trucks    ☐ Medium-Duty Vehicles    ☒ Gas    ☐ Diesel

Manufacturer K & E INTERNATIONAL Page 2

Engine Family HX12.3V6 FC54 Engine Code M102-1

ECS (Special Features) CL,TWC (MFI) CID (Liter)-Type 140 (2.3) L-4

Engine Code	Vehicle Models (If Coded see attachment)	Trans	Equiv. Test Wt. Lbs.	Ign. System VA Part No.	Fuel System MFI Part No.	EGR Valve Part No.	Label Ident. Part No.
M102-1	190E2.3	A4,M5	3125	003 158 2801	Fuel Distributor: 0 438 101004 Air Sensor: 0 258 003015	DNA	Tune-up: 2015843421  Vac. Line Diagr.: 2015843021
M102-1	230E2.3	A4,M5	3250	003 158 2801	Fuel Distributor: Air Sensor: 0 258 003015	DNA	Tune-up 1245843421 Vac. Line Diagr.: 1245843021

**Comments:** See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two weights are listed, the lower weight will be used for testing.

\*Add 10% to dyno test HP for air conditioning usage.

Date of Issue —

E.O.# A-282-2

## 19\_\_ MODEL-YEAR MODIFIER CERTIFIED SUPPLEMENTAL REVIEW SHEET

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Modifier K&E International Auto Consultants Engine Family HK12.3V6FC54  
 Original Vehicle Mfgr. Mercedes/Daimler Benz Model-Year Vehicle 1987

Additional Requirements	Section/page	Section/page
1. New Application Fee (\$4000)	<u>pd</u>	2. Carryover Fee (\$2000) <u>N/A</u>
3. Perjury Statement	<u>§17</u>	4. ECS Shop Manuals <u>Submitted</u>
5. Configuration Control Testing	<u>to do</u>	6. Service Facilities <u>§17</u>
7. \$1000 Surety Bond	<u>§17</u>	8. \$3000 Recall Insurance <u>N/A</u>
9. Replacement ECS Parts List	<u>§</u>	10. Warranty Insurance <u>§§7, 17</u>
11. "Modifiers" Identified (10% Interests & Officers)	<u>§17</u>	12. Assembly Plants <u>Newark, NJ</u>

ARB Use Only

Application  
 Processed By Henry Kano Date 6/25/87 Reviewed By W. H. H. for RTK Date 6/25/87